

全国中文核心期刊  
全国优秀科技期刊

ISSN 2095-0756  
CODEN ZNDXBB

# 浙江农林大学学报

原刊名:浙江林学院学报

JOURNAL OF  
ZHEJIANG A & F UNIVERSITY

2012年6月 第29卷 第3期  
Vol. 29 No. 3 Jun. 2012



中国 浙江 临安  
LIN'AN ZHEJIANG CHINA



9 772095 075119

万方数据

# 浙江农林大学学报

Zhejiang Nonglin Daxue Xuebao

2012年6月20日

第29卷 第3期

## 目次

|                                    |                                        |
|------------------------------------|----------------------------------------|
| 坡向坡位对毛竹林生物量与碳储量的影响 .....           | 范叶青, 周国模, 施拥军, 董德进, 周宇峰 (321)          |
| 高精度保证下的浙江省森林植被生物量评估 .....          | 季碧勇, 陶吉兴, 张国江, 杜群, 姚鸿文, 徐军 (328)       |
| 湄潭县城规划区景观指数的粒度效应分析 .....           | 李佳佳, 王志泰 (335)                         |
| 基于高空间分辨率航空影像的宁波鄞州新城区城市景观格局分析 ..... | 郭慧慧, 蒋文伟, 梅艳霞 (344)                    |
| 基于 SketchUp 与 GIS 的森林景观可视化实现 ..... | 吴兆艳, 汤孟平 (352)                         |
| 城市公园植物景观量化评价研究 .....               | 邵锋, 宁惠娟, 包志毅, 侯维微 (359)                |
| 千岛湖姥山林场不同森林群落空气负离子浓度的比较 .....      | 刘欣欣, 华超, 张明如, 张建国, 柳丹 (366)            |
| 杉木人工林空间分布格局时空变化分析 .....            | 杨子清, 陈平留, 刘健, 余坤勇, 廖晓丽, 游浩辰, 龚从宏 (374) |
| 不同培养基和蔗糖质量浓度对细叶小羽藓孢子萌发的影响 .....    | 杭璐璐, 张楠, 季梦成 (383)                     |
| 罗甸麻疯树开花习性及花的时空分布特点 .....           | 王秀荣, 丁贵杰, 刘烈志, 李平 (388)                |
| 12种(包括3品种)木兰属植物花粉形态学研究 .....       | 申亚梅, 钱超, 范义荣, 童再康 (394)                |
| 欧李果实采后不同形态钙的质量分数及组成变化 .....        | 马建军, 张立彬, 杜彬, 于凤鸣, 任艳军 (401)           |
| 雷州半岛桉树不同品种和树龄对磷吸收的影响 .....         | 赵贵, 丁效东, 王荣萍, 廖新荣, 李淑仪 (407)           |
| 不同红豆树人工林生长和心材特性的差异 .....           | 张蕊, 王秀花, 陈柳英, 冯建国, 周志春 (412)           |
| 热压过程中毛竹材加工剩余物蒸爆纤维木质素结构变化规律 .....   | 尚娜娜, 叶晓, 黄丽霜, 金贞福 (420)                |
| 五节芒茎秆微观构造及结晶度研究 .....              | 赵佳美, 胡勇庆, 钱少平, 李冰, 钱俊 (426)            |
| 室带槌腹叶蜂的形态和生物学 .....                | 梁香媚 (431)                              |
| 基于“中国生态环境第一县”品牌的庆元旅游发展策略研究 .....   | 朱铨 (435)                               |
| 浙江省竹产业循环经济发展研究 .....               | 贾佳, 单胜道, 温国胜 (440)                     |
| 文献综述                               |                                        |
| 植物质膜内在水通道蛋白 PIPs 的分子生物学研究进展 .....  | 何勇清, 方佳, 余敏芬, 方仲相, 江波, 潘寅辉, 郑炳松 (446)  |
| 枇杷果实糖酸积累的分子生理机制 .....              | 秦巧平, 林飞凡, 张岚岚 (453)                    |
| 问题讨论                               |                                        |
| 林下经营权的法律问题探讨 .....                 | 张志平 (458)                              |
| 研究简报                               |                                        |
| 马尾松林下套种阔叶树生长状况初报 .....             | 丁敏, 倪荣新, 毛轩平 (463)                     |
| 4种分布于浙江石灰岩山地的新记录植物 .....           | 王丽敏, 陈征海, 马丹丹, 夏国华, 李根有 (467)          |
| 发现于浙江的4种归化植物新记录 .....              | 苗国丽, 陈征海, 谢文远, 马凯, 马丹丹 (470)           |
| 浙江农林大学在浙江省农村工作会议上受表彰等 .....        | (343, 466, 472)                        |

期刊基本参数: CN 33-1370/S\*1984\*b\*A4\*152\*zh\*P\*¥20.00\*1 200\*25\*2012-06-20

万方数据

## Contents

|                                                                                                                                     |                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Relationship of slope aspect and position on biomass and carbon storage in a <i>Phyllostachys edulis</i> stand                      | FAN Ye-qing, ZHOU Guo-mo, SHI Yong-jun, et al. (321)     |
| Zhejiang Province's forest vegetation biomass assessment for guaranteed accuracy                                                    | JI Bi-yong, TAO Ji-xing, ZHANG Guo-jiang, et al. (328)   |
| Landscape indices with sensor grain size changes in Meitan County, China                                                            | LI Jia-jia, WANG Zhi-tai (335)                           |
| Landscape pattern analysis of Yinzhou new city zone based on high spatial resolution aerial photos                                  | GUO Hui-hui, JIANG Wen-wei, MEI Yan-xia (344)            |
| Forest landscape visualization based on SketchUp and GIS                                                                            | WU Zhao-yan, TANG Meng-ping (352)                        |
| Quantified estimates of plant landscapes in urban parks                                                                             | SHAO Feng, NING Hui-juan, BAO Zhi-yi, et al. (359)       |
| Aero-anion concentration in different forest communities of Laoshan Forest Farm, Chun'an County                                     | LIU Xin-xin, HUA Chao, ZHANG Ming-ru, et al. (366)       |
| Spatio-temporal variation of distribution patterns in <i>Cunninghamia lanceolata</i> plantations                                    | YANG Zi-qing, CHEN Ping-liu, LIU Jian, et al. (374)      |
| <i>Haplocladium microphyllum</i> spore germination with different culture mediums and sucrose concentrations                        | HANG Lu-lu, ZHANG Nan, JI Meng-cheng (383)               |
| Flowering behavior and spatial-temporal distribution characteristics of <i>Jatropha curcas</i> in Luodian                           | WANG Xiu-rong, DING Gui-jie, LIU Lie-zhi, et al. (388)   |
| Pollen morphology of 9 <i>Magnolia</i> species and 3 cultivars                                                                      | SHEN Ya-mei, QIAN Chao, FAN Yi-rong, et al. (394)        |
| Mass fraction and compositional change of calcium forms in wild <i>Prunus humilis</i> fruits during the post harvest storage period | MA Jian-jun, ZHANG Li-bin, DU Bin, et al. (401)          |
| Phosphorus absorption of two different <i>Eucalyptus</i> cultivars at different tree ages in the Leizhou Peninsula                  | ZHAO Gui, DING Xiao-dong, WANG Rong-ping, et al. (407)   |
| Growth and heartwood characteristics of <i>Ormosia hosiei</i> plantations                                                           | ZHANG Rui, WANG Xiu-hua, CHEN Liu-ying, et al. (412)     |
| Lignin characteristics of steam exploded bamboo residue during hot pressing                                                         | SHANG Na-na, YE Xiao, HUANG Li-shuang, et al. (420)      |
| Microstructure and crystallinity of the <i>Miscanthus floridulus</i> culm                                                           | ZHAO Jia-mei, HU Yong-qing, QIAN Shao-ping, et al. (426) |
| Morphology and biology on <i>Tenthredo nubipennis</i>                                                                               | LIANG Xiang-mei (431)                                    |
| Tourism development strategy in Qingyuan County under the brand of "the Chinese County with the best eco-environment"               | ZHU Quan (435)                                           |
| Research recycling economy development of bamboo industry in Zhejiang Province                                                      | JIA Jia, SHAN Sheng-dao, WEN Guo-sheng (440)             |
| <b>Reviews</b>                                                                                                                      |                                                          |
| Advances in molecular biology for plasma membrane intrinsic proteins (PIPs): a review                                               | HE Yong-qing, FANG Jia, YU Min-fen, et al. (446)         |
| Review of the studies on the accumulation mechanisms of sugar and organic acids in <i>Eriobotrya japonica</i> fruit                 | QIN Qiao-ping, LIN Fei-fan, ZHANG Lan-lan (453)          |
| <b>Discussion</b>                                                                                                                   |                                                          |
| Legal issues of rights to manage the understory land                                                                                | ZHANG Zhi-ping (458)                                     |
| <b>Scientific notes</b>                                                                                                             |                                                          |
| Growth of <i>Pinus massoniana</i> and broad-leaved tree mixed forests                                                               | DING Min, NI Rong-xin, MAO Xuan-ping (463)               |
| Four newly recorded plants in the limestone mountainous region of Zhejiang Province                                                 | WANG Li-min, CHEN Zheng-hai, MA Dan-dan, et al. (467)    |
| Four newly records of naturalized plant found in Zhejiang, China                                                                    | MIAO Guo-li, CHEN Zheng-hai, XIE Wen-yuan, et al. (470)  |